

The cleared boxes will then look like this:*

Calculate distance and bearing between two Latitude/Longitude points using Haversine formula in JavaScript

http://www.movable-type.co.uk/scripts/latlong.html

Camino Info News Mac News Tabs Google

Movable Type Scripts

Calculate distance, bearing and more between Latitude/Longitude points

This page presents a variety of calculations for latitude/longitude points, with the formulæ and code fragments for implementing them.

All these formulæ are for calculations on the basis of a spherical earth (ignoring ellipsoidal effects) – which is accurate enough* for most purposes... [In fact, the earth is very slightly ellipsoidal; using a spherical model gives errors typically up to 0.3% – see notes for further details].

Enter the co-ordinates into the text boxes to try out the calculations. A variety of formats are accepted, principally:

- deg-min-sec suffixed with N/S/E/W (e.g. 40°44'55"N, 73 59 11W), or
- signed decimal degrees without compass direction, where negative indicates west/south (e.g. 40.7486, -73.9864):

Point 1: , Distance: **NaN** km

Point 2: , Initial bearing: **NaN**

Final bearing: **NaN**

Midpoint: **-,-**

And you can **see it on a map** (aren't those Google guys wonderful!)

* © 2002-2010 Chris Veness. Used by permission. For terms of use see <http://creativecommons.org/licenses/by/3.0/>.

Open your log file and copy the latitude for Manchester Cathedral. Then return to your browser window as shown above and paste the latitude into the first box for Point 1. Return to the log file and copy the longitude for the cathedral, INCLUDING THE MINUS SIGN. Paste this longitude into the second box for Point 1.

Fill the boxes for Point 2, in the same way, using the latitude and longitude for York Minster. Then place your pointer on one of the boxes for Point 1 and click your mouse. The host computer will update your display, giving the distance between Manchester Cathedral and York Minster in kilometers.

Click on the red words below the boxes. The host computer will transmit a map showing the two endpoints and the line between them.

If you want to know the distance in U.S. miles, use a calculator to multiply the kilometer distance by 0.621, or do an online search using the following keywords:

convert km to miles

The search engine will display a number of choices for online conversion calculators. Selecting one of them will display a generous supply of ads, in the midst of which will be a simple menu for converting kilometers to miles.

As promised on page 3, the next few pages show other methods for acquiring latitudes and longitudes for points of interest to you.